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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,957	11/20/2003	Shiva P. Singeetham	2065.001900	9015
23720 77590 977/28/2098 WILLIAMS, MORGAN & AMERSON 10333 RICHMOND, SUITE 1100			EXAMINER	
			DUNWOODY, AARON M	
HOUSTON, TX 77042			ART UNIT	PAPER NUMBER
			3679	
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			07/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/717,957 SINGEETHAM ET AL. Office Action Summary Examiner Art Unit Aaron M. Dunwoody 3679 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 May 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9.11-23.25-36 and 38-73 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-9,11-23,25-36 and 38-73 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ______.

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

In view of the Appeal Brief filed on 5/7/2008, PROSECUTION IS HEREBY REOPENED. New grounds set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/David J. Bagnell/

Supervisory Patent Examiner, Art Unit 3672.

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Claim Rejections - 35 USC § 112

The following is a guotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 15, 18-31 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The terms "downwardly" and "upwardly" in claims 15 and 29 are relative terms which renders the claim indefinite. The terms "downwardly" and "upwardly" are not defined by the claims, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claim 18 defines the claimed invention in terms of the non-claimed and only functional first and second components.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-99 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent 4526406. Nelson.

In regards to claim 1, in Figure 3 below, Nelson discloses a connector, comprising:

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a first end adapted to be coupled to a first component (having any convenient size and shape);

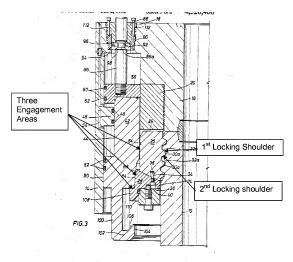
a plurality of locking segments (26, 28) that, when actuated, are adapted to secure said first component to a second component (having any convenient size and shape), wherein each of said plurality of locking segments comprises:

a first primary locking shoulder that is adapted to engage a first surface on said first component; and

a second primary locking shoulder that is adapted to engage a second surface on said second component; and

a locking mandrel (22) that, when actuated, is adapted to engage each of said plurality of locking segments at at least three discrete, spaced apart engagement areas.

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In regards to claim 2, in Figure 3 above, Nelson discloses at least one of said engagement areas is a substantially flat engagement area defined by the engagement of substantially flat surfaces.

In regards to claim 3, in Figure 3 above, Nelson discloses all of said engagement areas are substantially flat engagement areas defined by the engagement of substantially flat surfaces.

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In regards to claim 4, in Figure 3 above, Nelson discloses at least one of said engagement areas (84) is a tapered engagement area defined by the engagement of tapered surfaces.

In regards to claim 5, Nelson discloses all of said engagement areas are tapered engagement areas (with respect to any convenient reference plane) defined by the engagement of tapered surfaces.

In regards to claim 6, Nelson discloses said first end is threadingly coupled to said first component.

In regards to claim 7, Nelson discloses said first component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

In regards to claim 8, Nelson discloses said second component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

In regards to claim 9, Nelson discloses at least one indicator rod (86) that is operatively coupled to said locking mandrel and adapted to indicate a position of said locking mandrel.

In regards to claim 11, Nelson discloses each of said plurality of locking segments further comprises:

a first secondary shoulder on said locking segment that is adapted to engage a first secondary shoulder on said first component; and

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a second secondary shoulder on said locking segment that is adapted to engage a second secondary shoulder on said second component.

In regards to claim 12, Nelson discloses said first primary locking shoulder and said first surface on said first component are tapered surfaces.

In regards to claim 13, Nelson discloses said second primary locking shoulder and said second surface on said second component are tapered surfaces.

In regards to claim 14, Nelson discloses said locking mandrel comprises a plurality of recesses, each of which is adapted to receive a protrusion on said locking segments when said locking segments are in a disengaged position.

In regards to claim 15, Nelson discloses each of said locking segments is comprised of a downwardly facing surface that is adapted to engage an upwardly facing surface on said locking mandrel when said locking mandrel is actuated to disengage said connector.

In regards to claim 16, Nelson discloses said locking mandrel is operatively coupled to a primary piston.

In regards to claim 17, Nelson discloses a secondary release piston positioned below said primary piston, said secondary release piston adapted to, when actuated, cause said primary piston to move.

In regards to claim 18, Nelson discloses a connector, comprising: a first end adapted to be coupled to a first component;

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a plurality of locking segments that, when actuated, are adapted to secure said first component to a second component, wherein each of said plurality of locking segments comprises:

a first primary locking shoulder that is adapted to engage a first surface on said first component; and

a second primary locking shoulder that is adapted to engage a second surface on said second component; and

a locking mandrel that, when actuated, is adapted to engage each of said plurality of locking segments at at least two discrete, spaced apart substantially flat engagement areas, wherein said substantially flat engagement surfaces are substantially parallel to an axis of said first and second components when mated.

In regards to claim 19, Nelson discloses said connector is engaged at at least three discrete, spaced apart substantially flat engagement areas.

In regards to claim 20, Nelson discloses said first end is threadingly coupled to said first component.

In regards to claim 21, Nelson discloses said first component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

In regards to claim 22, Nelson discloses said second component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

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In regards to claim 23, Nelson discloses comprising at least one indicator rod that is operatively coupled to said locking mandrel and adapted to indicate a position of said locking mandrel.

In regards to claim 25, Nelson discloses each of said plurality of locking segments further comprises: a first secondary shoulder on said locking segment that is adapted to engage a first secondary shoulder on said first component; and a second secondary shoulder on said locking segment that is adapted to engage a second secondary shoulder on said second component.

In regards to claim 26, Nelson discloses said first primary locking shoulder and said first surface on said first component are tapered surfaces.

In regards to claim 27, Nelson discloses said second primary locking shoulder and said second surface on said second component are tapered surfaces.

In regards to claim 28, Nelson discloses said locking mandrel comprises a plurality of recesses, each of which is adapted to receive a protrusion on said locking segments when said locking segments are in a disengaged position.

In regards to claim 29, Nelson discloses each of said locking segments is comprised of a downwardly facing surface that is adapted to engage an upwardly facing surface on said locking mandrel when said locking mandrel is actuated to disengage said connector.

In regards to claim 30, Nelson discloses said locking mandrel is operatively coupled to a primary piston.

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In regards to claim 31, Nelson discloses a secondary release piston positioned below said primary piston, said secondary release piston adapted to, when actuated, cause said primary piston to move.

In regards to claim 32. Nelson discloses a connector, comprising:

a first end adapted to be coupled to a first component;

a plurality of locking segments that, when actuated, are adapted to secure said first component to a second component, wherein each of said plurality of locking segments comprises: a first primary locking shoulder that is adapted to engage a first surface on said first component; and

a second primary locking shoulder that is adapted to engage a second surface on said second component; and

a locking mandrel that, when actuated, is adapted to engage each of said plurality of locking segments at three discrete, spaced apart, substantially flat engagement areas.

In regards to claim 32, Nelson discloses said first end is threadingly coupled to said first component.

In regards to claim 34, Nelson discloses said first component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

In regards to claim 35, Nelson discloses said second component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

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In regards to claim 36, Nelson discloses comprising at least one connector rod that is operatively coupled to said locking mandrel and adapted to indicate a position of said locking mandrel.

In regards to claim 38, Nelson discloses at least one of said substantially flat areas is axially positioned between said first and second primary shoulders and laterally offset therefrom.

In regards to claim 39, Nelson discloses each of said plurality of locking segments further comprises:

a first secondary shoulder on said locking segment that is adapted to engage a first secondary shoulder on said first component; and

a second secondary shoulder on said locking segment that is adapted to engage a second secondary shoulder on said second component.

In regards to claim 40, Nelson discloses said first primary locking shoulder and said first surface on said first component are tapered surfaces.

In regards to claim 41, Nelson discloses said second primary locking shoulder and said second surface on said second component are tapered surfaces.

In regards to claim 42, Nelson discloses said locking mandrel comprises a plurality of recesses, each of which is adapted to receive a protrusion on said locking segments when said locking segments are in a disengaged position.

In regards to claim 43, Nelson discloses each of said locking segments is comprised of a downwardly facing surface that is adapted to engage an upwardly facing

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surface on said locking mandrel when said locking mandrel is actuated to disengage said connector.

In regards to claim 44, Nelson discloses said locking mandrel is operatively coupled to a primary piston.

In regards to claim 45, Nelson discloses comprising a secondary release piston positioned below said primary piston, said secondary release piston adapted to, when actuated, cause said primary piston to move.

In regards to claim 46, Nelson discloses a connector, comprising: a first end adapted to be coupled to a first component; a plurality of locking segments that, when actuated, are adapted to secure said first component to a second component, wherein each of said plurality of locking segments comprises: a first primary locking shoulder that is adapted to engage a first surface on said first component, and a second primary locking shoulder that is adapted to engage a second surface on said second component; and a locking mandrel that, when actuated, is adapted to engage each of said plurality of locking segments at three discrete, spaced apart, substantially flat engagement areas.

In regards to claim 47, Nelson discloses said first end is threadingly coupled to said first component.

In regards to claim 48, Nelson discloses said first component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

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In regards to claim 49, Nelson discloses said second component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

In regards to claim 50, Nelson discloses comprising at least one connector rod that is operatively coupled to said locking mandrel and adapted to indicate a position of said locking mandrel.

In regards to claim 51, Nelson discloses each of said plurality of locking segments further comprises: a first secondary shoulder on said locking segment that is adapted to engage a first secondary shoulder on said first component; and a second secondary shoulder on said locking segment that is adapted to engage a second secondary shoulder on said second component.

In regards to claim 52, Nelson discloses said first primary locking shoulder and said first surface on said first component are tapered surfaces.

In regards to claim 53, Nelson discloses said second primary locking shoulder and said second surface on said second component are tapered surfaces.

In regards to claim 54, Nelson discloses said locking mandrel comprises a plurality of recesses, each of which is adapted to receive a protrusion on said locking segments when said locking segments are in a disengaged position.

In regards to claim 55, Nelson discloses each of said locking segments is comprised of a downwardly facing surface that is adapted to engage an upwardly facing surface on said locking mandrel when said locking mandrel is actuated to disengage said connector.

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In regards to claim 56, Nelson discloses said locking mandrel is operatively coupled to a primary piston.

In regards to claim 57, Nelson discloses a connector, comprising: a first end adapted to be coupled to a first component; a plurality of means for securing said first component to a second component, each of said means for securing comprising: a first primary locking shoulder that is adapted to engage a first surface on said first component; and a second primary locking shoulder that is adapted to engage a second surface on said second component; and means for engaging each of said means for securing said first component to said second component at at least three discrete, spaced apart engagement areas.

In regards to claim 58, Nelson discloses said plurality of means for securing said first component to said second component comprises a plurality of locking segments, each of which are adapted to, when actuated, engage said first and second components.

In regards to claim 59, Nelson discloses said means for engaging each of said means for securing said first component to said second component comprises a locking mandrel.

In regards to claim 60, Nelson discloses a means for actuating said means for engaging each of said plurality of securing means.

In regards to claim 61, Nelson discloses said means for actuating said means for engaging comprises a piston operatively coupled to said means for engaging.

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In regards to claim 62, Nelson discloses a secondary release means for disengaging said means for engaging each of the means for securing said first component to said second component.

In regards to claim 63, Nelson discloses said secondary release means comprises a piston.

In regards to claim 64, Nelson discloses at least one of said engagement areas is a substantially flat engagement area defined by the engagement of substantially flat surfaces.

In regards to claim 65, Nelson discloses all of said engagement areas are substantially flat engagement areas defined by the engagement of substantially flat surfaces.

In regards to claim 66, Nelson discloses 6 at least one of said engagement areas is a tapered engagement area defined by the engagement of tapered surfaces.

In regards to claim 67, Nelson discloses all of said engagement areas are tapered engagement areas defined by the engagement of tapered surfaces.

In regards to claim 68, Nelson discloses said first component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

In regards to claim 69, Nelson discloses said second component is comprised of at least one of a blowout preventer, a riser, a production tree, a tubing head and a running tool.

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In regards to claim 70, Nelson discloses said primary piston is positioned within a body of said connector.

In regards to claim 71, Nelson discloses said primary piston is positioned within a body of said connector.

In regards to claim 72, Nelson discloses said primary piston is positioned within a body of said connector.

In regards to claim 73, Nelson discloses said primary piston is positioned within a body of said connector.

Response to Arguments

Applicant's arguments filed 5/7/2008 have been fully considered but they are not persuasive.

Applicant argues that Examiner has ignored the "adapted to" function. The Examiner disagrees. The Examiner has given the "adapted to" function all of the patentable weight it is entitled to. The MPEP recites:

2111.04 [R-3] "Adapted to," "Adapted for," "Wherein," and "Whereby" Clauses

Claim scope is not limited by claim language that suggests or makes optional but does not require steps to be performed, or by claim language that does not limit a claim to a particular structure. However, examples of claim language, although not exhaustive, that may raise a question as to the limiting effect of the language in a claim are:

- (A) "adapted to "or "adapted for "clauses;
- (B) "wherein" clauses; and
- (C) "whereby "clauses.

The determination of whether each of these clauses is a limitation in a claim depends on the specific facts of the case. In Hoffer v, Merosoft Corp., 405 F.3d 1326, 1329, 74 USPQ2d 1481, 1483 (Fed. Cir. 2005), the court held that when a "whereby' clause states a condition that is material to patentability, it cannot be ignored in order to change that substance of the invention." Md However, the court need topologic Minton v, Nd V Ass "n of Securities Deolers, Inc., 336 F.3d 1373, 1381, 67 USPQ2d 1614, 1620 (Fed. Cir. 2003)) that a "whereby clause in a method claim is not given weight when it simply expresses the intended result for a process step positively recited," M_c .

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2173.05(g) [R-3] Functional Limitations

A functional finitiation is an attempt to define something by what it does, rather than by what it is e.g., as evidenced by its specific structure or specific ingredients). There is nothing inherently wrong with defining some part of an invention in functional terms. Functional language does not, in and of fiself render a claim improper. In re 8a mehart, 439 E. dz 121, 160 USPO 226 (CPL 1971).

A functional limitation must be evaluated and considered, just like any other limitation of the claim. for what it fairly conveys to a person of ordinary skill in the pertnent at in the context in which it is used. A functional limitation is other used in association with an

context in which it is used. A functional finitintion is often used in association with an dement, ingredient, or step of a process to define a particular capability or purpose that is served by the recited element, ingredient or step. —In Timora Timo World Timor, v. Safars World Timoraton Sys. Inc., 381 F.341111, 1117-20, 72 USPQ24 1001, 1006-08 (Fed. Cir. 2004), the court retord that the claim term "operatively connected" is "a

general descriptive claim term frequently used in patent drafting to reflect a functional relationship between claimed components, "that is, the term means the claimed components must be connected in a way to perform a designated function." In the obsence of modifiers, general descriptive terms are typically construed an lowing their full meaning." If at 1118, 72 USP/22d at 1000, In the potent claim at issue, "subject to any claim and meaning the subject of the contraction components of the contracted function and maintainful discovered of claim coope, the term operatively connected to and the full better of its ordinary meaning i.e., and then full operatively connected to and the full better of the contraction of the contraction of the contraction of the contraction of officience in a 112 to 20 USP/22d at 1008.

Whether or not the functional limitation complex with 35 U.S.C. 112, second paragraph, is a different issue from whether the limitation is properly supported under 35 U.S.C. 112. Birst paragraph, or is distinguished over the prior art. A lew examples are set forth below to illustrate situations where the issue of whether a functional limitation complex with 35 U.S.C. 112 second paragraph, was considered

It was held that the limitation used to define a radical on a chemical compound as "incapable of forming a dye with said coxidizing developing agent" although functional, was perfectly acceptable because it set definite boundaries on the patent protection sought. *In* re Burn, 444 F.2d 588, 170 USPQ 33 (CCPA 1971).

In a claim that was directed to a ki of component parts capable of being assembled, the Cover held that limitations such as "members adapted to be positioned" and "portions... being residently distribute whereby said housing may be slightly positioned" serve to precisely define present structural attributes of interrelated component parts of the claimed assemble. In rel Forence, 35 or E 24 956, 18 USISP (14) CCPA 1976).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M. Dunwoody whose telephone number is 571-272-7080. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on 571-272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aaron M Dunwoody/ Primary Examiner Art Unit 3679

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